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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,722	12/01/2005	Marc Stephan	175.8156USU	9734
Paul D Greeley Ohlandt Greeley Ruggiero & Perle			EXAMINER	
			VAN, QUANG T	
One Landmark Square 10th Floor		ART UNIT	PAPER NUMBER	
Stamford, CT 06901-2682			3742	
			MAIL DATE	DELIVERY MODE
			06/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/520,722	STEPHAN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Quang T. Van	3742		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 23 № This action is FINAL . 2b) This action for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-10 and 22-31 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) 22-31 is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.			
9) ☐ The specification is objected to by the Examination [10] ☐ The drawing(s) filed on <u>07 January 2005</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e: a) accepted or b) objected or b)	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate		

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being obvious over Holcombe et al (US 4,810,846), in view of Bhaduri et al (US 2002/0106611 A1) previous cited.

Holcombe discloses a container for heat treating materials in microwave oven having a container (22) makes of a primary material (col. 3, line 40-47) and with a secondary material (col. 3, lines 57-68). It does not explicitly show the wavelength and the power of the microwave energy used. Bhaduri shows a microwave sintering of dental parts with a frequency of 2.45 GHz. (i. e. a wavelength of about 12.5 cm) and the power is about 1.0 – 2.5 kw (see Figures 1-14, the abstract and paragraphs [0013] and

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[0032]-[0040]). It would have been obvious to an ordinary skill in the art at the time of invention to modify Holcombe to determine the exact frequency and power for microwave sintering dental parts in view of the teaching of Bhaduri through routine experimentation depending on the size and type of load to be heated in order to achieve optimal heating.

- 4. Claims 22-31 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not show or suggest the step of introducing a secondary material into an annular recess of the intermediate element so that the secondary material is surrounded by the primary material, the annular recess surrounding the receiving portion, wherein the secondary material comprises at least one material selected from the group consisting of: non-metallic materials, paramagnetic materials, ferro-magnetic materials and antiferromagnetic materials as recited in claims 22-31.

Response to Amendment

- 6. Applicant's arguments with respect to claims 1-10 and 22-31 have been considered but are moot in view of the new ground(s) of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang T. Van whose telephone number is 571-272-4789. The examiner can normally be reached on 8:00Am 5:00Pm M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quang T Van/ Primary Examiner, Art Unit 3742 June 1, 2009

Quang T Van Primary Examiner Art Unit 3742